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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,600	02/12/2004	Chandar Kamalanathan	DC-06380	4924

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EXAMINER .

HAILU, TESHOME

ART UNIT	PAPER NUMBER
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2109

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/777,600

Applicant(s)

KAMALANATHAN ET AL.

Examiner

Teshome Hailu

Art Unit

2109

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>05/17/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-20 are pending.

Claim Objections

2. Claims 1, 9, 16, 17, and 18 are objected to because of the following informalities: the short form HTML should be write as HYPERTEXT MARKUP LANGUAGE (HTML) at least one time. Appropriate correction is required.
3. Claim 8 objected to because of the following informalities: it is depend on claim 7 instead of claim 1. It should depend on claim 1. Appropriate correction is required.
4. Claim 11 objected to because of the following informalities: it is depend on claim 10 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
5. Claim 12 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
6. Claim 13 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
7. Claim 14 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
8. Claim 15 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
9. Claim 16 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
10. Claim 17 objected to because of the following informalities: it is depend on claim 11 instead of claim 9. It should depend on claim 9. Appropriate correction is required.
11. Claim 20 objected to because of the following informalities: it is depend on claim 19 instead of claim 18. It should depend on claim 18. Appropriate correction is required.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

13. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Howard et al (Howard), US PG PUBS No. 20020069365.

As per claim 1, Howard discloses:

- Systems for ***secure HTML links***, (page 6, paragraph 67, "If the client computer is running the limited-use browser/module, the server system **generates a secure HTML**").

- a protocol ***encryption tool*** operable to associate ***encrypted protocols with HTML links***, (page 7, paragraph 73, "The client system receives the requested content from the server system as either **encrypted HTML content** or secured document package").

- ***each protocol associated with a restricted browser function***; (page 6, paragraph 67, "the server system generates a **secure HTML page corresponding to the requested content** and sends the page to the client system").

- an editor operable to ***publish an HTML link*** and ***associated encrypted protocol*** in a web page (page 1, paragraph 15, "a limited-use web browser and **related security system allows providers** of text and images or other content to **publish content on a local-area network (LAN) or wide-area network (WAN), such as world wide web (web) and the Internet**"), where HTML is one way of creating a web page. "publish the content" inherently including "an editor operable to publish".

- a browser operable ***to display the web page and HTML link*** (page 1-2, paragraph 15, "reads and **displays any viewable web content** including text, images, and streaming audio and video").

- the browser having ***one or more restricted function***, (page 6, paragraph 62, "A secure document package is composed of a document manager and **one or more web pages**"), where the web pages can be a restricted function.

- each restricted function requiring at least ***selection of an HTML link*** (page 6, paragraph 67, "the server system **generates a secure HTML page corresponding to the requested content** and sends the page to the client system").

- ***a function confirmation before the browser executes the function*** (page 4, paragraph 42, "When the user request 313 is received by the server computer 301, **the server component 302 determines if a client key is associated with the request**. If the key 314 is not present, the request is immediately rejected.").

- a ***protocol decryption engine*** interfaced with the browser, the ***protocol decryption engine operable to decrypt the encrypted protocol associated with the html link*** and authorize execution of the associated restricted browser function without the function confirmation. (Page 4, paragraph 45, "When a **document is secured using the common security model**, the server component 302 encrypts the document prior to downloading it, and the **limited user browser 312 decrypts** the data for viewing only.")

As per claim 2, Howard discloses:

- the restricted browser function comprises a command to ***execute a binary***. (Page 9, paragraph 96, "a delivery object 701 which is the **DLL binary for the document manager**"). Moreover (page 4, paragraph 36, "The **file management system** is typically stored in the mass memory 215 and cause the processor 205 **to execute the various steps** required by the operating system").

As per claim 3, Howard discloses:

- the restricted browser function comprises a command ***to save a binary***. (Page 9, paragraph 96, "a delivery object 701 which is the **DLL binary for the document manager**"). Moreover (page 4, paragraph 36, "**The file management system is typically stored** in the mass memory 215 and cause the processor 205 to execute the various steps required by the operating system to input and output data and to store data in memory, including storing files on the mass memory 215."), where saving a file means storing a file.

As per claim 4, Howard discloses:

- the restricted browser function comprises a command **to execute a script**. (Page 2, paragraph 28, "Any format that can be displayed via the internet, such as web graphic, common gateway interface (CGI) scripts, JAVA scripts"), where displaying a script means executing a script.

As per claim 5, Howard discloses:

- the restricted browser function comprises a command **to save a script**. (Page 4, paragraph 36, "The file management system is typically stored in the mass memory 215 and cause the processor 205 to execute the various steps required by the operating system to input and output data and to store data in memory, including storing files on the mass memory 215.")

As per claim 6, Howard discloses:

- a protocol **filter associated with the browser and operable to preprocess plural encrypted protocols upon retrieval of the web page by the browser**. (Page 8, paragraph 86, "The server security component filters web client authentication, and web server request and response events"). Further Howard discloses (Page 6, paragraph 68, "Each document to be protected under the common security model (block 425) is marked for later encryption with the system level encryption key (SLE)").

As per claim 7, Howard discloses:

- the **protocol encryption tool comprises a private key for encryption** of protocols. (Page 6, paragraph 68, "Each document to be protected under the common security model (block 425) is marked for later encryption with the system level encryption key (SLE)").

As per claim 8, Howard discloses:

- ***protocol decryption engine comprises a public key.*** (Page 6, paragraph 62, "to decrypt the **package**, it is necessary to know where to break up the individual pages before attempting the decrypt the file and even then encryption makes the content unusable to anyone but the owner of the machine with the **client registered with the unique ULE key.**")

As per claim 9, Howard discloses:

- A method for ***secure HTML links***, (page 6, paragraph 67, "the server system **generates a secure HTML**").

- ***encrypting a protocol associated with a restricted browser function***; (page 7, paragraph 73, "The client system receives the requested content from the server system as **either encrypted HTML content or secured document package**"). Moreover, (page 6, paragraph 67, "the server system generates **a secure HTML page corresponding to the requested content** and sends the page to the client system").

- publishing the ***encrypted protocol in an HTML framework to associate with an HTML link*** that executes the restricted browser function; (page 1, paragraph 15, "a limited-use web browser and related **security system allows providers** of text and images or other content to publish content on a local-area network (LAN) or wide-area network (WAN), **such as world wide web (web) and the Internet**"), where HTML is one way of creating a web page.

- ***displaying the HTML framework through a browser***, (page 1-2, paragraph 15, "reads and **displays any viewable web content** including text, images, and streaming audio and video").

- the browser restricting execution of restricted functions by ***requiring a distinct confirmation before execution of the restricted function***; (page 4, paragraph 42, "When the user request 313 is received by the server computer 301, the server component **302 determines if a client key is associated with the request. If the key 314 is not present, the request is immediately rejected.**")

- ***decrypting the encrypted protocol at the browser***, and authorizing execution of the restricted function without the distinct confirmation. (Page 4, paragraph 45, "When a document is **secured using**

the common security model, the server component 302 encrypts the document prior to downloading it, and the limited user browser 312 decrypts the data for viewing only.”)

As per claim 10, Howard discloses:

- **encrypting a protocol further comprises encrypting the protocol with a private key.** (Page 6, paragraph 68, “Each document to be protected under the common security model (block 425) is marked for later encryption with the system level encryption key (SLE)”).

As per claim 11, Howard discloses:

- **decrypting the protocol further comprises decrypting the protocol with a public key.** (Page 6, paragraph 62, “to decrypt the package, it is necessary to know where to break up the individual pages before attempting the decrypt the file and even then encryption makes the content unusable to anyone but the owner of the machine with the client registered with the unique ULE key.”)

As per claim 12, Howard discloses:

- **authorizing execution of restricted function further comprises authorizing execution of a binary by the browser.** (Page 9, paragraph 96, “a delivery object 701 which is the DLL binary for the document manager”). Moreover (page 4, paragraph 36, “The file management system is typically stored in the mass memory 215 and cause the processor 205 to execute the various steps required by the operating system”).

As per claim 13, Howard discloses:

- **authorizing execution of the restricted function further comprises authorizing saving of a binary by the browser.** (Page 9, paragraph 96, “a delivery object 701 which is the DLL binary for the document manager”). Moreover (page 4, paragraph 36, “The file management system is typically stored in the mass memory 215 and cause the processor 205 to execute the various steps required by the operating system

to input and output data and to **store data in memory**, including storing files on the mass memory 215.”), where saving a file means storing a file.

As per claim 14, Howard discloses:

- authorizing **execution** of the restricted function further comprises authorizing execution of a **script by the browser**. (Page 2, paragraph 28, “Any format that can be **displayed via the internet**, such as web graphic, common gateway interface (**CGI scripts, JAVA scripts**”), where displaying a script means executing a script.

As per claim 15, Howard discloses:

- authorizing **execution** of the restricted function further comprises authorizing **saving of a script by the browser**. (Page 4, paragraph 36, “The file management system is typically stored in the mass memory 215 and cause the processor 205 to **execute** the various steps required by the operating system to input and output data and to **store data in memory**, including storing files on the mass memory 215.”)

As per claim 16, Howard discloses:

- preprocessing of plural **encrypted protocols** substantially upon loading of the HTML framework to the browser. (Page 6, paragraph 68, “Each document to be protected under the common security model (block 425) is marked for later **encryption with the system level encryption key (SLE)**”).

As per claim 17, Howard discloses:

- the distinct confirmation comprises **a window displayed upon user selection of an HTML link** associated with a restricted function, the window requiring at least one addition input by the user before execution of the restricted function. (page 1-2, paragraph 15, “**reads and displays any viewable web content** including text, images, and streaming audio and video”).

As per claim 18, Howard discloses:

- **An information handling system** comprising: (page 1, paragraph 11, "secure information distribution system")

- a browser operable to retrieve and **display a HTML link associated with a restricted function**, (page 7, paragraph 73, "The client system receives the requested content from the server system as either encrypted HTML content or secured document package").

- the browser requiring a **distinct confirmation of a selection of the HTML link** before execution of the restricted function; (page 4, paragraph 42, "When the user request 313 is received by the server computer 301, the server component 302 determines if a client key is associated with the request. If the key 314 is not present, the request is immediately rejected.")

- an **encrypted protocol associated with the HTML link**; (page 6, paragraph 60, "The HTML source code is encrypted by the server digital processing system using a system level encryption (SLE) key.")

- a protocol **decryption engine** interfaced with the browser and operable **to override the distinct confirmation** requirement upon decryption and validation of the encrypted protocol. (Page 4, paragraph 45, "When a document is secured using the common security model, the server component 302 encrypts the document prior to downloading it, and the limited user browser 312 decrypts the data for viewing only"). Further Howard discloses, (page 4, paragraph 42, "When the user request 313 is received by the server computer 301, the server component 302 determines if a client key is associated with the request. If the key 314 is not present, the request is immediately rejected.")

As per claim 19, Howard discloses:

- browser is further operable to **retrieve a web page having plural encrypted protocols**, (page 6, paragraph 62, "A secure document package is composed of a document manager and one or more web pages, each of which is encrypted with the ULE.")

- **the information handling system** further comprising, (page 1, paragraph 11, "secure information distribution system")

- a protocol filter interfaced with the browser and operable to identify the *plural encrypted protocols* for decrypting by the protocol decryption engine. (Page 8, paragraph 86, "The server security component filters web client authentication, and web server request and response events"). Further Howard discloses (Page 6, paragraph 68, "Each document to be protected under the common security model (block 425) is marked for later encryption with the system level encryption key (SLE)").

As per claim 20, Howard discloses:

- a protocol database interfaced with the protocol *decryption engine* and having a table of protocols and associated restricted functions, (Page 6, paragraph 62, "to decrypt the package, it is necessary to know where to break up the individual pages before attempting the decrypt the file and even then encryption makes the content unusable to anyone but the owner of the machine with the client registered with the unique ULE key.")

Conclusion

14. The prior art made or record and not relied upon is considered pertinent to applicant's disclosure

TITLE: Automated on-line information service and directory, particularly for the world wide web, US-6,324,538.

TITLE: Object-based on-line transaction infrastructure, US-6,757,710.

TITLE: Method and system for controlling access, by an authentication server, to protected computer resources provided via an Internet protocol network, US Pub. No. 2003/0046589.

TITLE: System and method for carrying out information-related transactions using web documents embodying transaction enabling applets automatically launched and executed in response to reading URL-encoded symbols pointing thereto, US Pub. No. 2004/0046014.

TITLE: System and method for network operation, US Pub. No. 2003/0233541.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teshome Hailu whose telephone number is (571) 270-3159. The examiner can normally be reached on Mon-Fri 7:30a.m. to 5:00p.m. PST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chamili Das can be reached on (571) 272-3696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Teshome Hailu

TH

Patent Examiner

Art Unit 2109

Chameli Das

**CHAMELI DAS
SUPERVISORY PATENT EXAMINER**

6/8/07